

Fig. 1

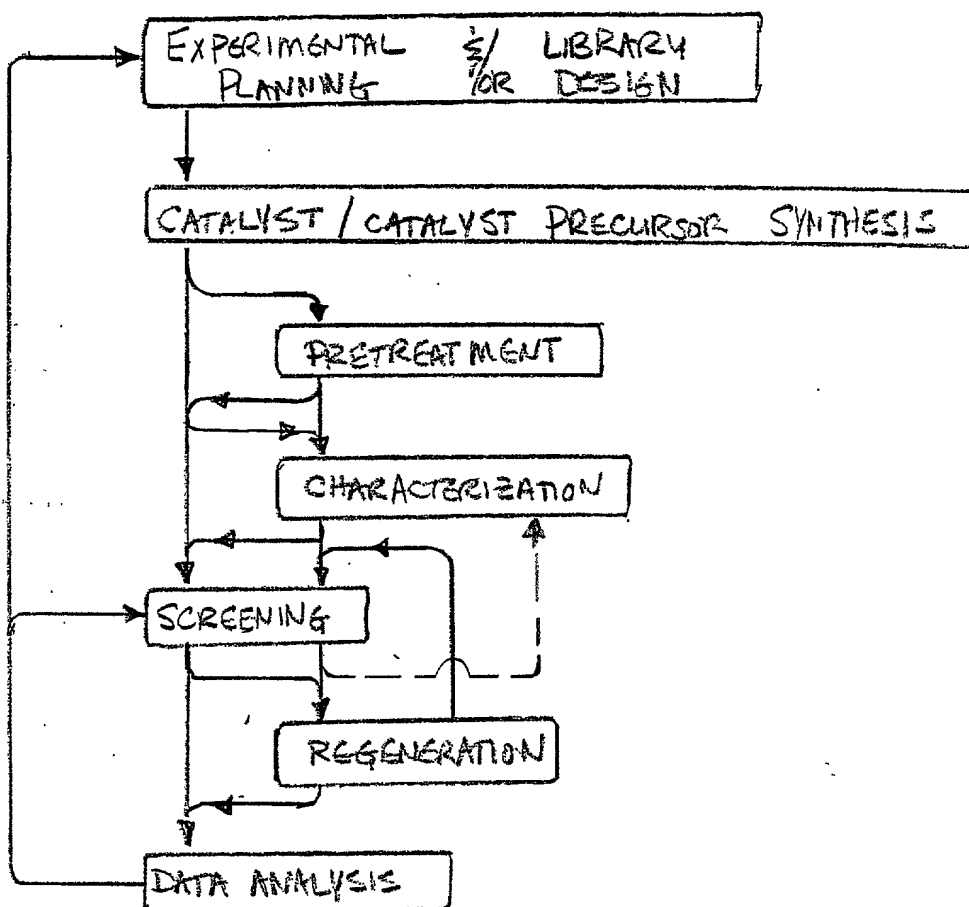


FIG. 2A

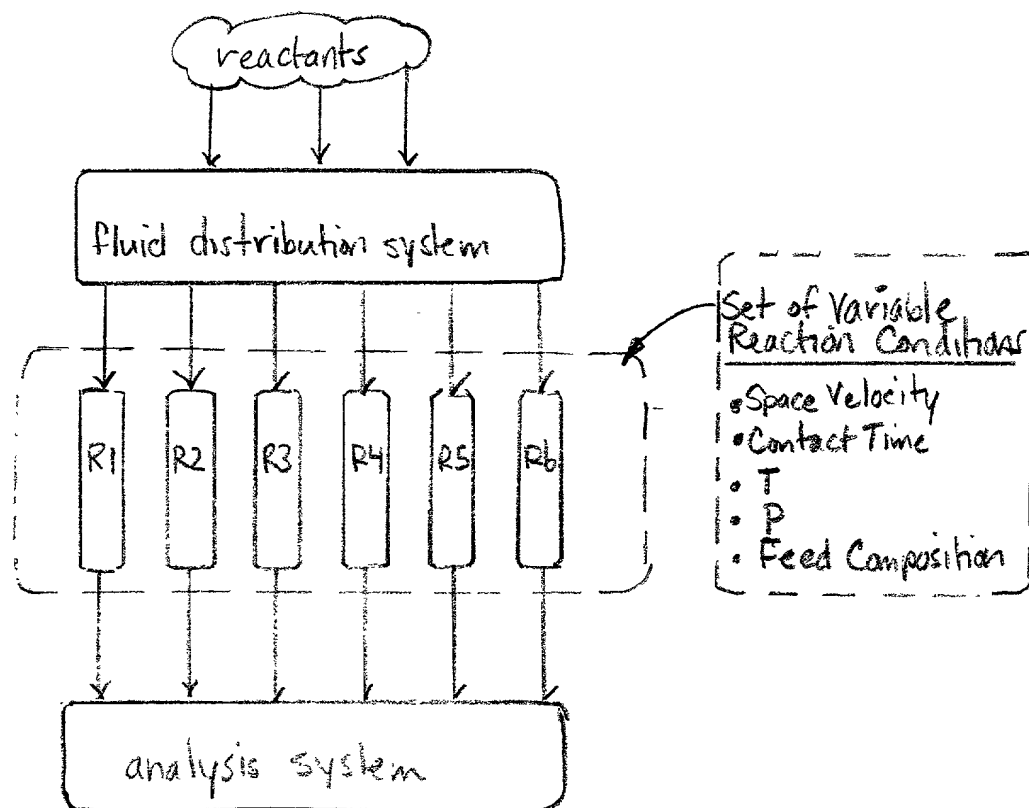


FIG. 2B

SV ₁ (or CT ₁)	C ₁	C ₁
SV ₂ (or CT ₂)	C ₁	C ₁
SV ₃ (or CT ₃)	C ₁	C ₁
	T ₁	T ₂
	(or) P ₁	(or) P ₁
	(or) FC ₁	(or) FC ₂

6 simultaneous experiments

FIG. 2C

SV ₁ (or CT ₁)	C ₁	C ₁	C ₁	C ₁
SV ₂ (or CT ₂)	C ₁	C ₁	C ₁	C ₁
SV ₃ (or CT ₃)	C ₁	C ₁	C ₁	C ₁
	T ₁	T ₂	P ₁	P ₂
			(or) FC ₁	(or) FC ₂

12 simultaneous experiments

FIG. 2D

SV_1 (or CT_1)	C_1	C_1	C_2	C_2
SV_2 (or CT_2)	C_1	C_1	C_2	C_2
SV_3 (or CT_3)	C_1	C_1	C_2	C_2
	T_1	T_2	T_1	T_2
	(P_1)	(P_2)	(P_1)	(P_2)
	(FC_1)	(FC_2)	(FC_1)	(FC_2)

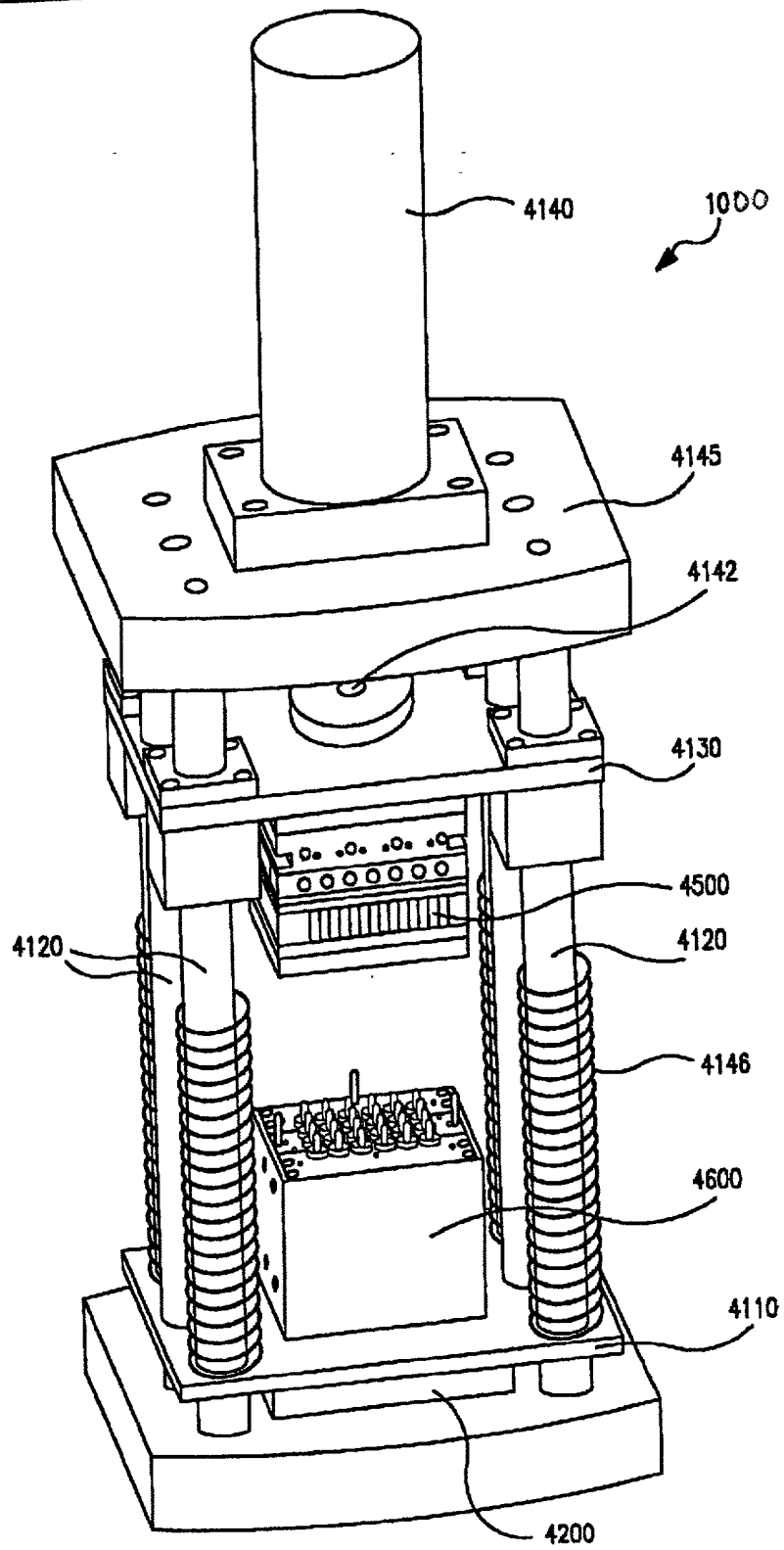
12 Simultaneous
experiments

FIG. 2E

SV_1 (or CT_1)	C_1	C_2	C_3	C_4
SV_2 (or CT_2)	C_4	C_1	C_2	C_3
SV_3 (or CT_3)	C_3	C_4	C_1	C_2
SV_4 (or CT_4)	C_2	C_3	C_4	C_1
	T_1	T_2	T_3	T_4
	(P_1)	(P_2)	(P_3)	(P_4)
	(FC_1)	(FC_2)	(FC_3)	(FC_4)

16 simultaneous
experiments

FIG. 2F



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Fig. 24

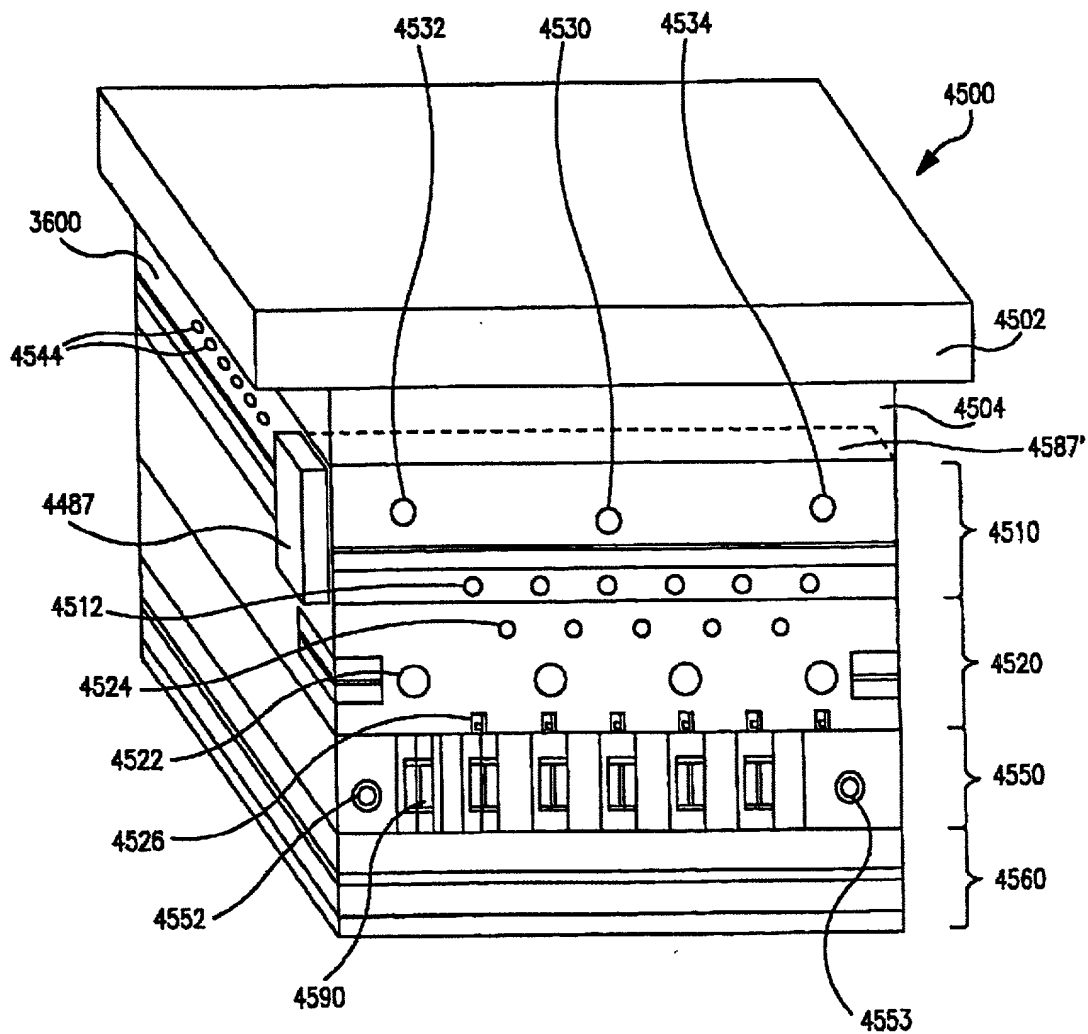


FIG. 2L

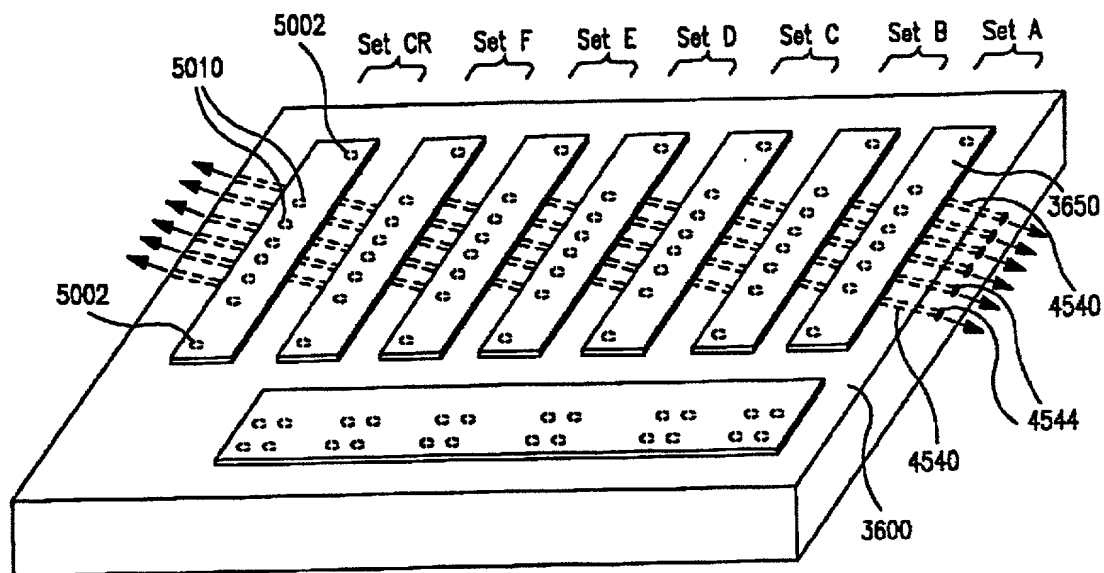


FIG. 2M

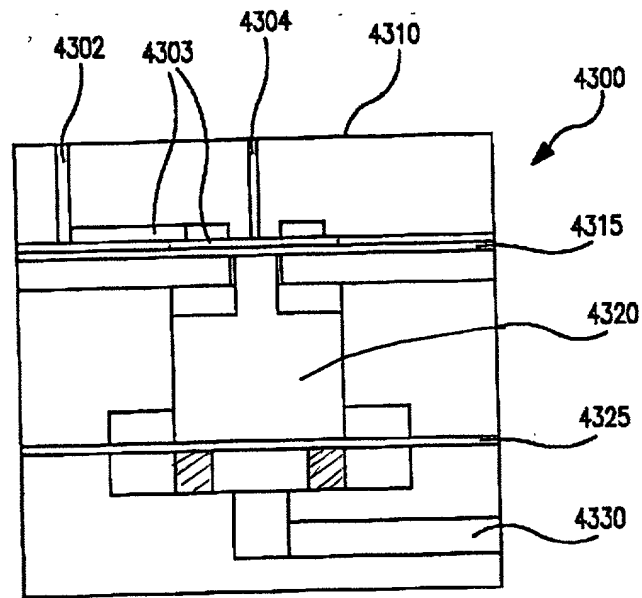
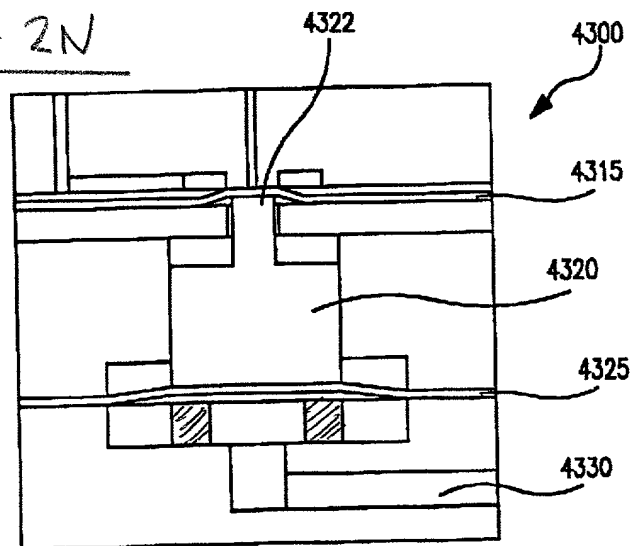


FIG. 2N



Descriptive Statistics		Descriptive Statistics		Descriptive Statistics		Descriptive Statistics		Descriptive Statistics			
Variable	Mean	SD	Variable	Mean	SD	Variable	Mean	SD	Variable	Mean	SD
Age	35.2	12.5	Gender	Male	65.5	Female	34.5	11.8	Marital Status	Married	58.2
Education	12.8	2.1	Occupation	Professional	42.1	Non-Professional	57.9	12.2	Religion	Hindu	62.3
Income	15.5	8.3	Health Status	Good	55.4	Poor	44.6	10.5	Political Party	Congress	51.7
Urban/Rural	Urban	52.3	Rural	47.7	Urban	48.1	9.7	Language	Hindi	59.8	
State	State A	33.1	State B	33.9	State C	33.0	11.5	Castes	Upper Caste	54.2	
Religion	Hindu	62.3	Muslim	37.7	Hindu	62.3	11.5	Religion	Hindu	62.3	
Political Party	Congress	51.7	BJP	48.3	Congress	51.7	11.5	Political Party	Congress	51.7	
Language	Hindi	59.8	English	40.2	Hindi	59.8	11.5	Language	Hindi	59.8	
Castes	Upper Caste	54.2	Lower Caste	45.8	Upper Caste	54.2	11.5	Castes	Upper Caste	54.2	
Religion	Hindu	62.3	Muslim	37.7	Hindu	62.3	11.5	Religion	Hindu	62.3	
Political Party	Congress	51.7	BJP	48.3	Congress	51.7	11.5	Political Party	Congress	51.7	
Language	Hindi	59.8	English	40.2	Hindi	59.8	11.5	Language	Hindi	59.8	
Castes	Upper Caste	54.2	Lower Caste	45.8	Upper Caste	54.2	11.5	Castes	Upper Caste	54.2	
Religion	Hindu	62.3	Muslim	37.7	Hindu	62.3	11.5	Religion	Hindu	62.3	
Political Party	Congress	51.7	BJP	48.3	Congress	51.7	11.5	Political Party	Congress	51.7	
Language	Hindi	59.8	English	40.2	Hindi	59.8	11.5	Language	Hindi	59.8	
Castes	Upper Caste	54.2	Lower Caste	45.8	Upper Caste	54.2	11.5	Castes	Upper Caste	54.2	
Religion	Hindu	62.3	Muslim	37.7	Hindu	62.3	11.5	Religion	Hindu	62.3	
Political Party	Congress	51.7	BJP	48.3	Congress	51.7	11.5	Political Party	Congress	51.7	
Language	Hindi	59.8	English	40.2	Hindi	59.8	11.5	Language	Hindi	59.8	
Castes	Upper Caste	54.2	Lower Caste	45.8	Upper Caste	54.2	11.5	Castes	Upper Caste	54.2	
Religion	Hindu	62.3	Muslim	37.7	Hindu	62.3	11.5	Religion	Hindu	62.3	
Political Party	Congress	51.7	BJP	48.3	Congress	51.7	11.5	Political Party	Congress	51.7	
Language	Hindi	59.8	English	40.2	Hindi	59.8	11.5	Language	Hindi	59.8	
Castes	Upper Caste	54.2	Lower Caste	45.8	Upper Caste	54.2	11.5	Castes	Upper Caste	54.2	
Religion	Hindu	62.3	Muslim	37.7	Hindu	62.3	11.5	Religion	Hindu	62.3	
Political Party	Congress	51.7	BJP	48.3	Congress	51.7	11.5	Political Party	Congress	51.7	
Language	Hindi	59.8	English	40.2	Hindi	59.8	11.5	Language	Hindi	59.8	
Castes	Upper Caste	54.2	Lower Caste	45.8	Upper Caste	54.2	11.5	Castes	Upper Caste	54.2	
Religion	Hindu	62.3	Muslim	37.7	Hindu	62.3	11.5	Religion	Hindu	62.3	
Political Party	Congress	51.7	BJP	48.3	Congress	51.7	11.5	Political Party	Congress	51.7	
Language	Hindi	59.8	English	40.2	Hindi	59.8	11.5	Language	Hindi	59.8	
Castes	Upper Caste	54.2	Lower Caste	45.8	Upper Caste	54.2	11.5	Castes	Upper Caste	54.2	
Religion	Hindu	62.3	Muslim	37.7	Hindu	62.3	11.5	Religion	Hindu	62.3	
Political Party	Congress	51.7	BJP	48.3	Congress	51.7	11.5	Political Party	Congress	51.7	
Language	Hindi	59.8	English	40.2	Hindi	59.8	11.5	Language	Hindi	59.8	
Castes	Upper Caste	54.2	Lower Caste	45.8	Upper Caste	54.2	11.5	Castes	Upper Caste	54.2	
Religion	Hindu	62.3	Muslim	37.7	Hindu	62.3	11.5				



FIG. 2Q

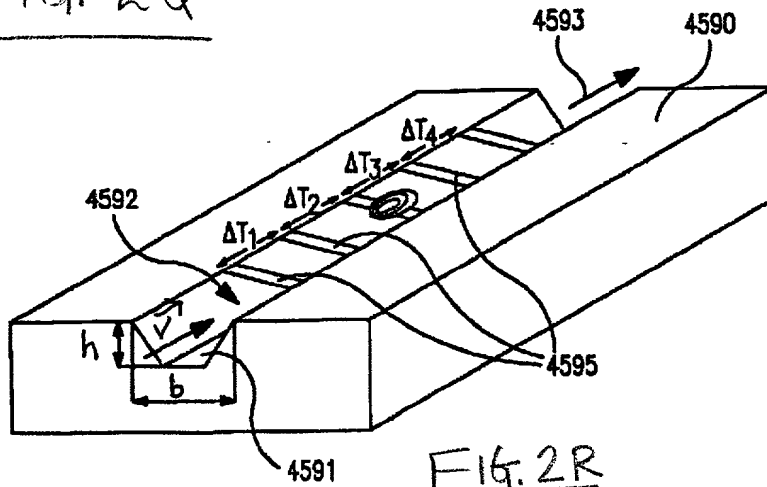


FIG. 2R

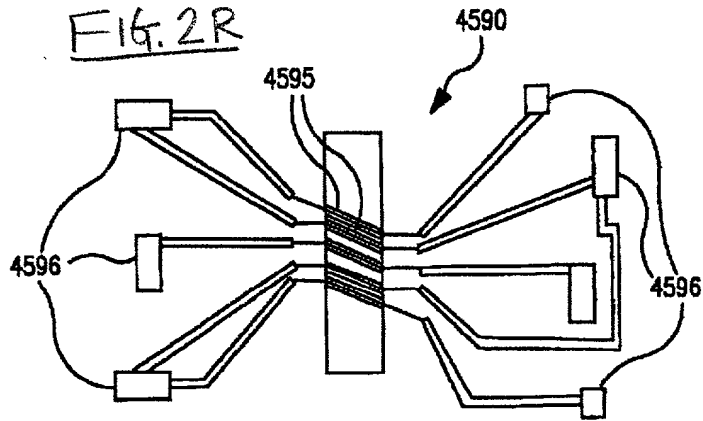


FIG. 2S

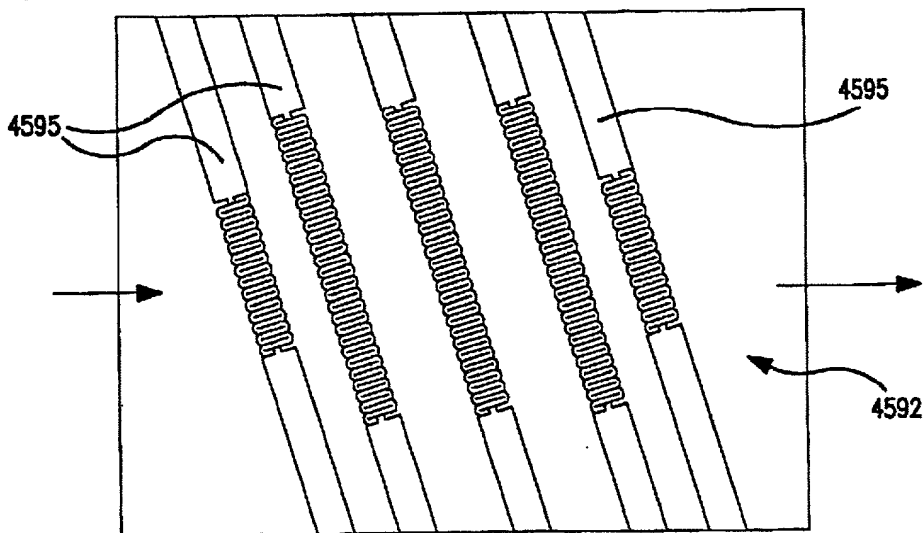


Fig 2T

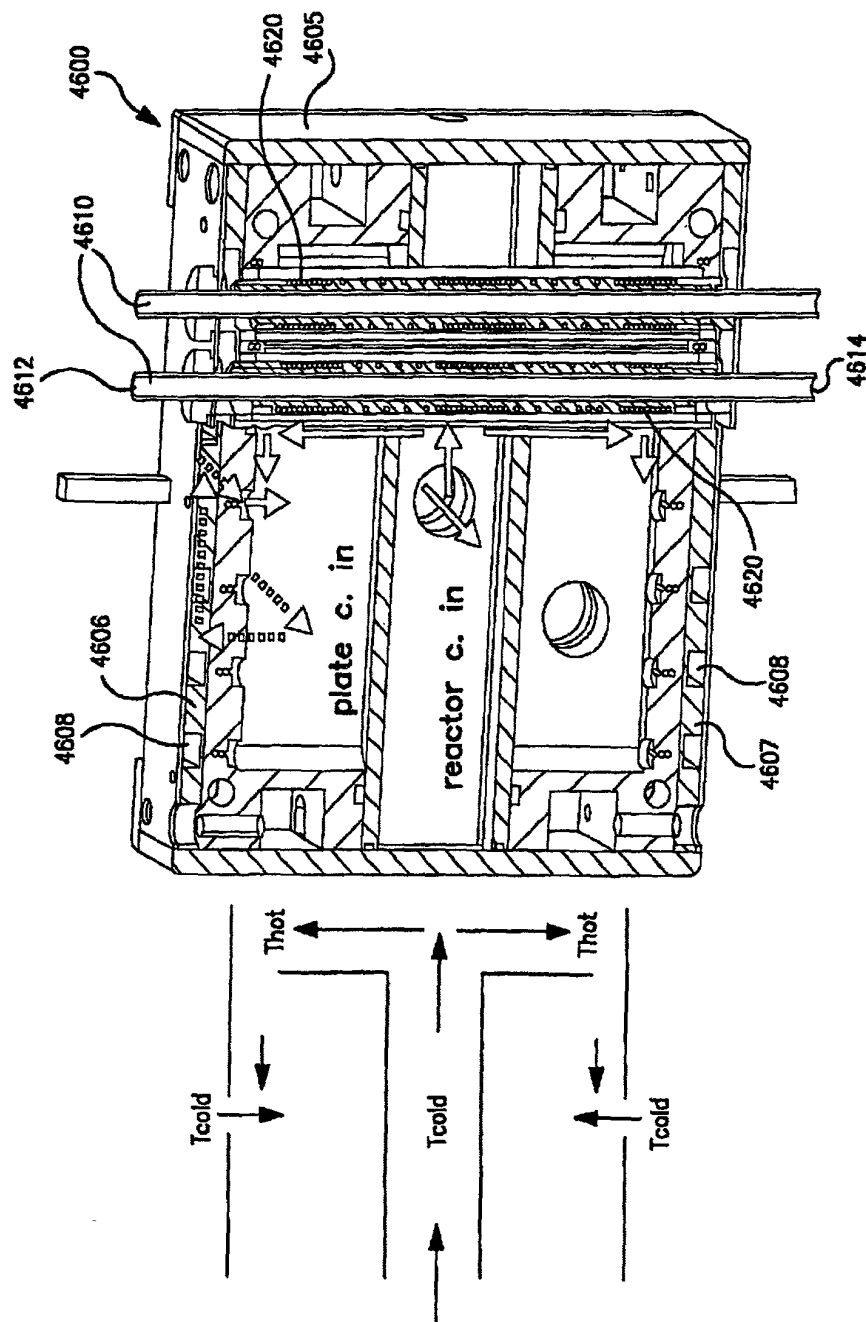
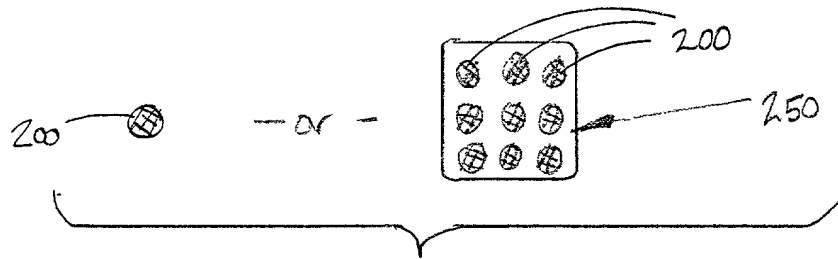


FIG. 3A

PROCESS EVALUATION

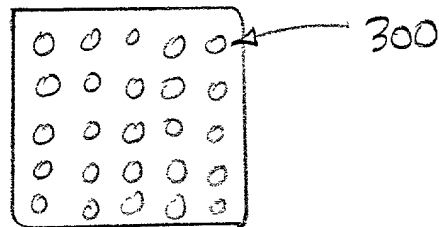


PC₁ PC₂ PC₃ PC₄ PC₅ ... PC_n

PC preferred (for representative composition)
(for reaction of interest)

FIG. 3B

COMPOSITIONAL EVALUATION



PC preferred

hits / leads

Fig. 4A

SYNTHESIS
PROCESS
EVALUATION

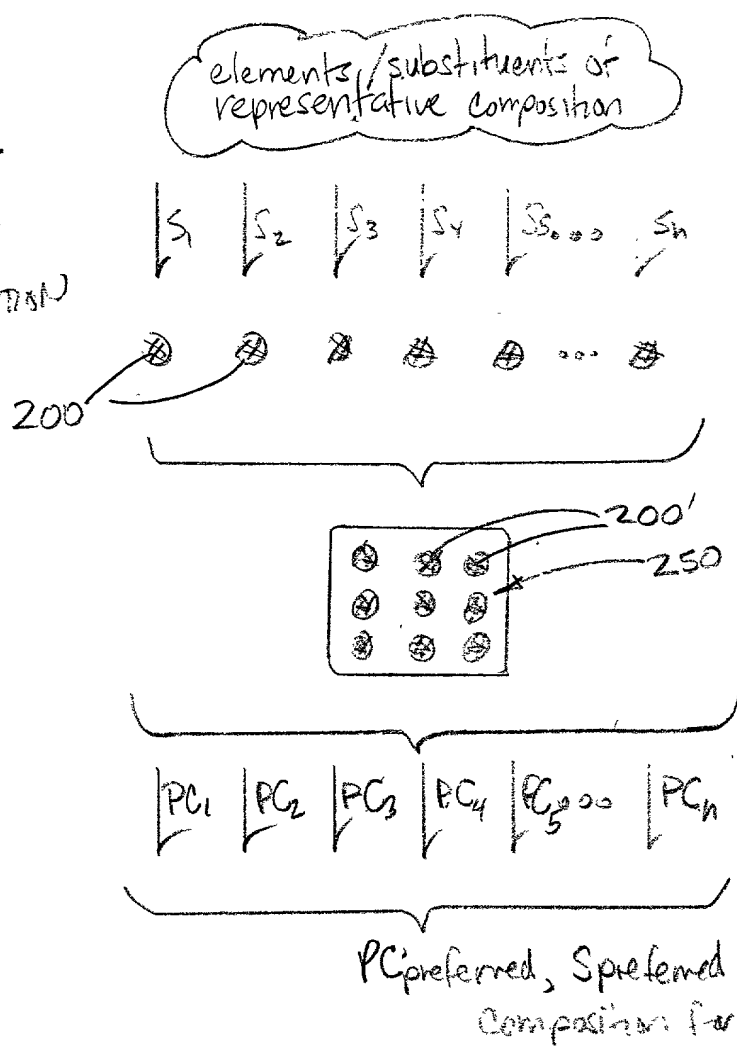


Fig. 4B

COMPOSITIONAL
EVALUATION

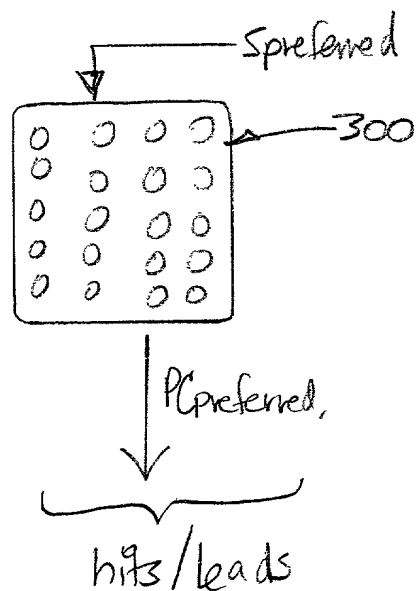


FIG. 5A

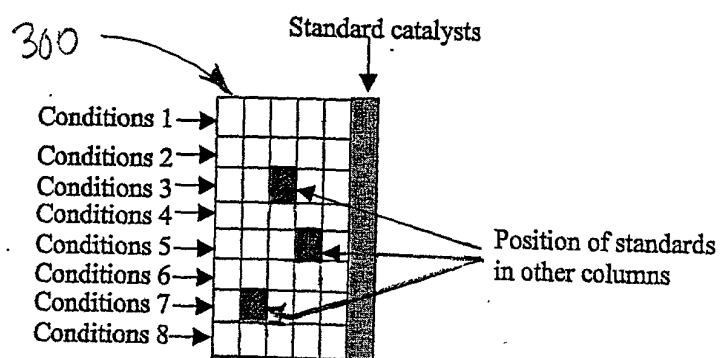


FIG. 5B

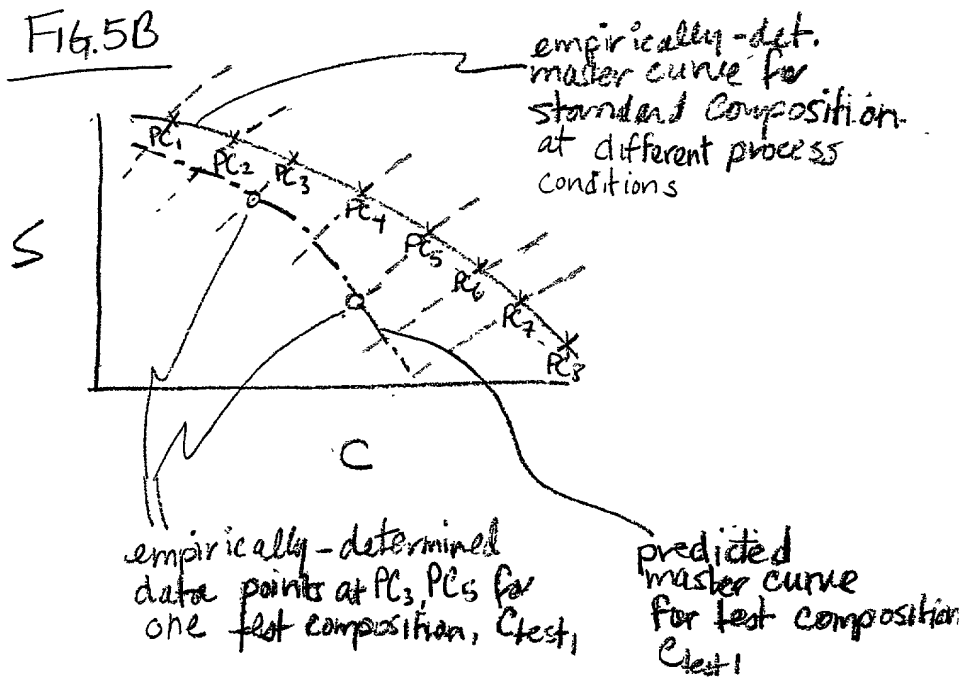


FIG. 5C

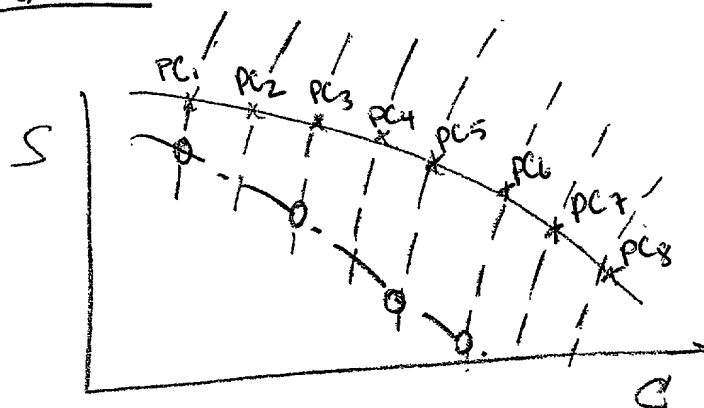


Fig. 5D

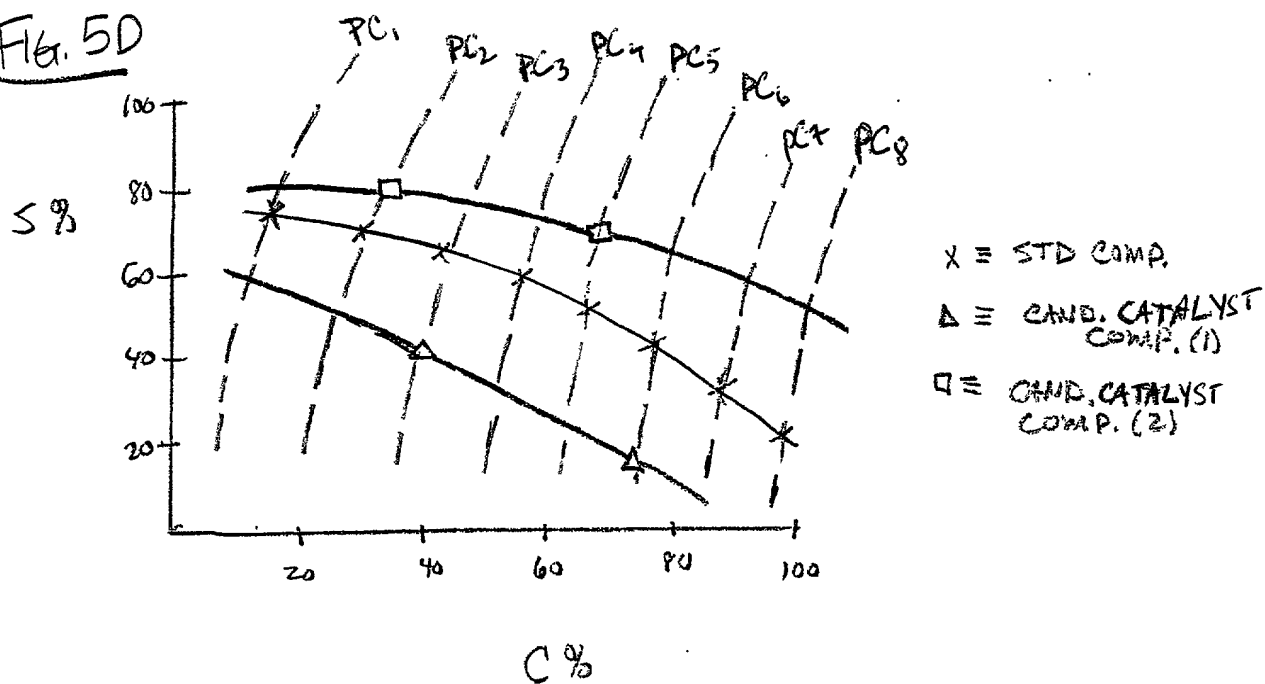


Fig. 5E

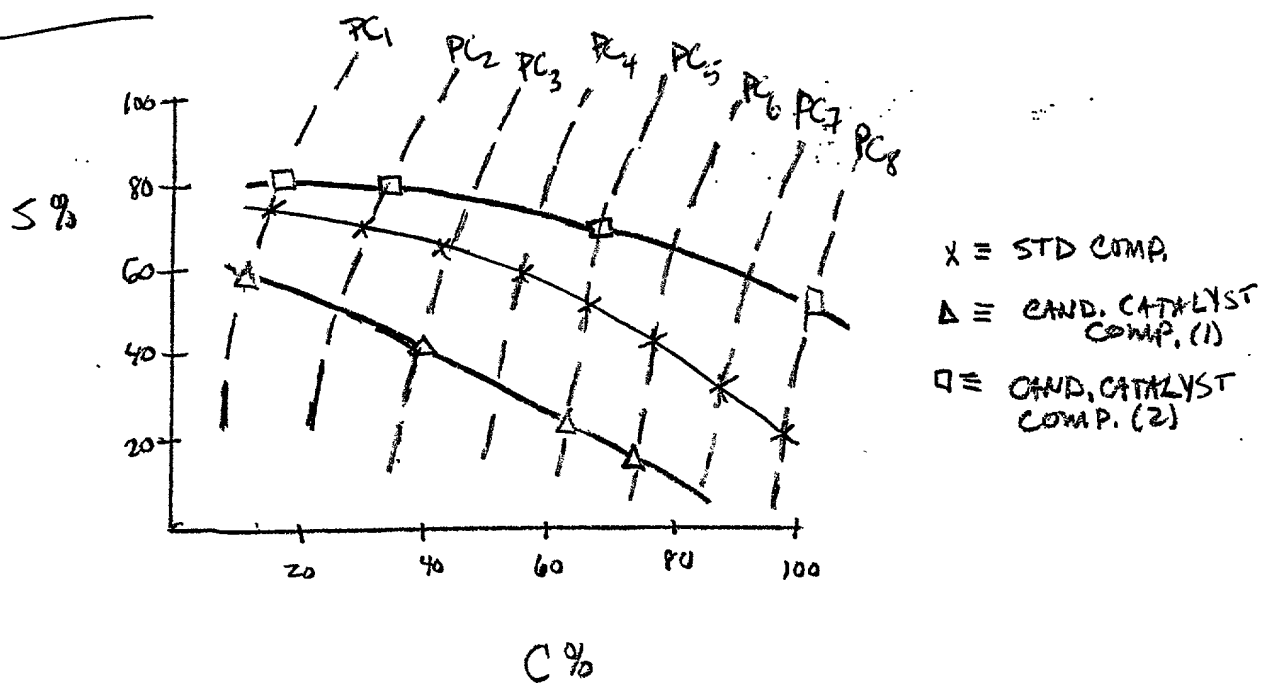
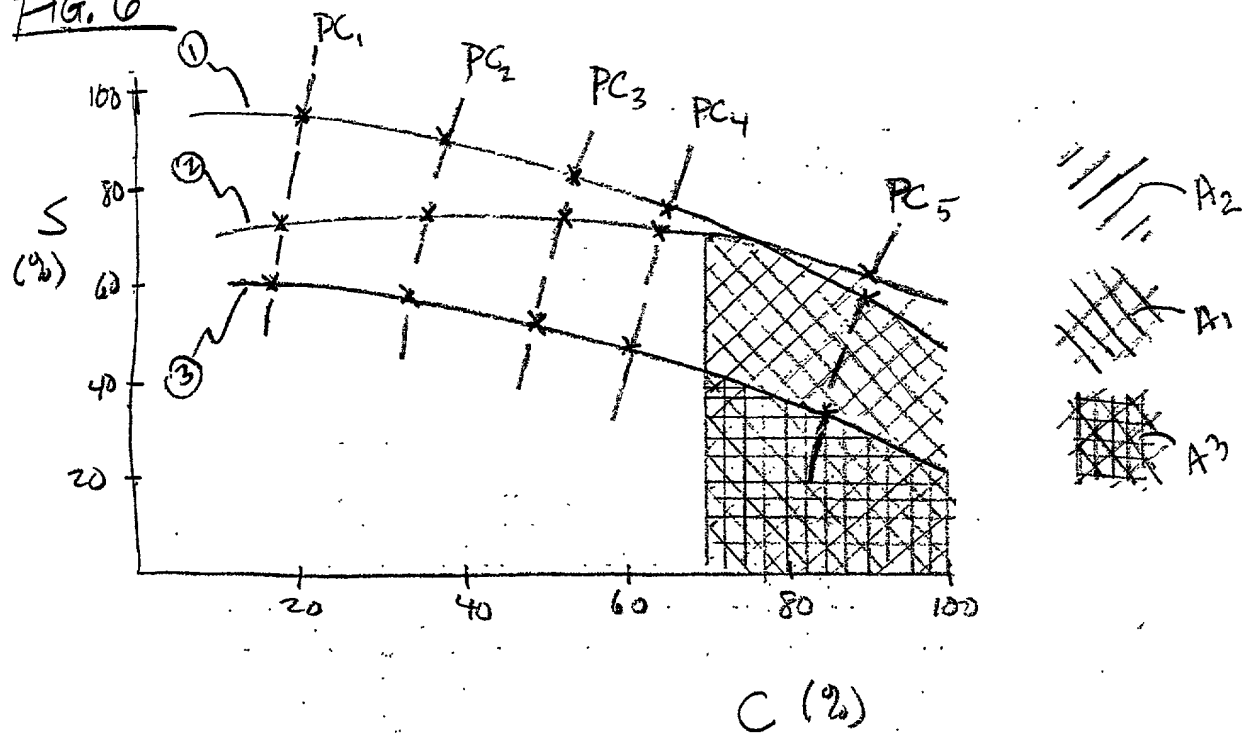


Fig. 6



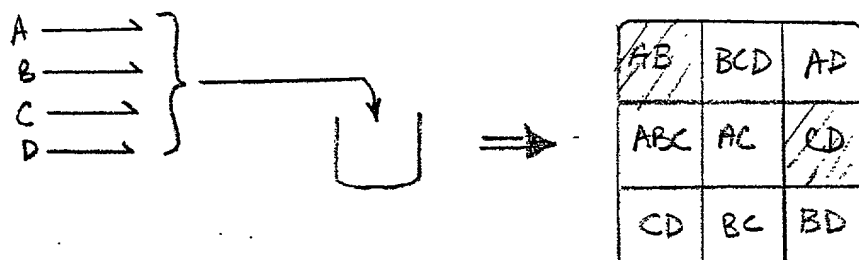
$$\left(A_2 \approx A_1 \gg A_3 \Rightarrow \textcircled{2} \approx \textcircled{1} \gg \textcircled{3} \text{ for catalyst performance} \right)$$

$$\textcircled{1} \equiv C_1$$

$$\textcircled{2} \equiv C_2$$

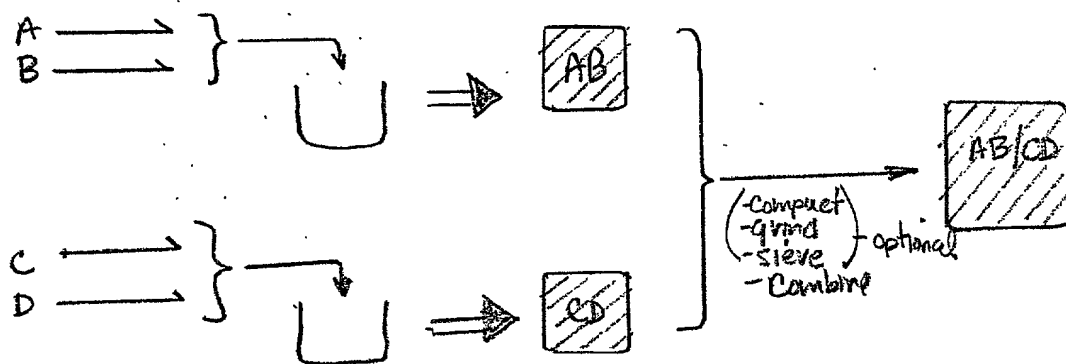
$$\textcircled{3} \equiv C_3$$

Fig. 7A (Prior Art) - (SINGLE POT SYNTHESIS)



/// \equiv catalytically active or promoter phase

Fig. 7B - (Selective Active-Phase Synthesis)



/// \equiv catalytically active or promoter phase